WHAT IS CLAIMED IS:

1	1. A method for determining the time of transmission of a message packet
2	from a network device including a plurality of transmit queues, said method comprising th
3	steps of:
4	disabling a selected transmit queue to flush all packets from the selected
5	transmit queue;
6	placing the message packet in the selected transmit queue;
7	disabling all other transmit queues;
8	waiting a selected time interval sufficiently long for all other transmit queue
9	to be flushed;
10	transmitting the message packet from the selected transmit queue; and
11	measuring time of transmission of the message packet from the selected
12	transmit queue.
1	2. The method of claim 1 where the steps of transmitting and measuring
2	further comprise:
3	reading and saving a base time of a local clock and a first timer value of a
4	timer residing on the network device;
5	reading a second timer value of the timer and transmitting the message pack
6	and
7	calculating the time of transmission from the base time and first and second
8	timer values.
1	3. The method of claim 1 where the message packet is a SYNC message
2	utilized in the PTP.
1	4. The method of claim 1 further comprising the step of:
2	sending a follow up packet including the time of transmission of the message
3	packet.
1	5. A system for determining the time of transmission of a message packet
2	from a network device including a plurality of transmit queues, said system comprising:
3	means for disabling a selected transmit queue to flush all packets from the
4	selected transmit queue;

5	means for placing the message packet in the selected transmit queue;
6	means for disabling all other transmit queues;
7	means for waiting a selected time interval sufficiently long for all other
8	transmit queues to be flushed;
9	means for transmitting the message packet from the selected transmit queue;
10	and
11	means for measuring time of transmission of the message packet from the
12	selected transmit queue.
1	6. The system of claim 5 where the means for transmitting and measuring
2	further comprise:
3	means for reading and saving a base time of a local clock and a first timer
4	value of a timer residing on the network device; and
5	means for reading a second timer value of the timer and transmitting the
6	message packet: and
7	means for calculating the time of transmission from the base time and first and
8	second timer values.
1	7. The system of claim 5 where the message packet is a SYNC message
2	utilized in the PTP.
1	8. The system of claim 5 further comprising:
2	means for sending a follow up packet including the time of transmission of the
3	message packet.
1	9. A computer program product executed by a processor for determining the
2	time of transmission of a message packet from a network device including a plurality of
3	transmit queues, said computer program product comprising:
4	a computer usable medium having computer readable program code physically
5	embodied therein, said computer program product further comprising:
6	computer readable program code executed by the processor for disabling a
7	selected transmit queue to flush all packets from the selected transmit queue;
8	computer readable program code executed by the processor for placing the
9	message packet in the selected transmit queue;

10	computer readable program code executed by the processor for disabling all
11	other transmit queues;
12	computer readable program code executed by the processor for waiting a
13	selected time interval sufficiently long for all other transmit queues to be flushed;
14	computer readable program code executed by the processor for transmitting
15	the message packet from the selected transmit queue; and
16	computer readable program code executed by the processor for measuring
17	time of transmission of the message packet from the selected transmit queue.
1	10. The computer program product of claim 9 where the computer readable
2	program code executed by the processor for transmitting and measuring further comprises:
3	computer readable program code executed by the processor for reading and
4	saving a base time of a local clock and a first timer value of a timer residing on the network
5	device;
6	computer readable program code executed by the processor for reading a
7	second timer value of the timer and transmitting the message packet; and
8	computer readable program code executed by the processor for calculating the
9	time of transmission from the base time and first and second timer values.
1	11. The computer program product of claim 9 where the message packet is a
2	SYNC message utilized in the PTP.
1	12. The computer program product of claim 9 further comprising:
2	computer readable program code executed by the processor for sending a
3	follow up packet including the time of transmission of the message packet.